

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:00:33 ON 29 APR 2004

=> FIL STNGUIDE

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'STNGUIDE' ENTERED AT 09:00:38 ON 29 APR 2004

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 23, 2004 (20040423/UP).

=> FIL HOME

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.06 | 0.27 |

FILE 'HOME' ENTERED AT 09:00:40 ON 29 APR 2004

=> file retg

'RETG' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'HOME'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.21 | 0.48 |

FILE 'REGISTRY' ENTERED AT 09:01:18 ON 29 APR 2004

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STRUCTURE FILE UPDATES: 27 APR 2004 HIGHEST RN 677274-15-6

DICTIONARY FILE UPDATES: 27 APR 2004 HIGHEST RN 677274-15-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

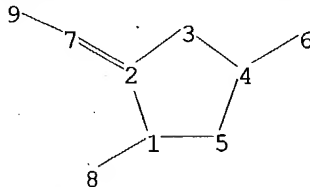
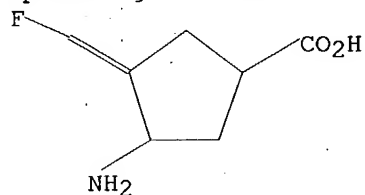
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Examination Auxillary files\10623152\10623152 clm 1.str



chain nodes :

6 7 8 9

ring nodes :

1 2 3 4 5

chain bonds :

1-8 2-7 4-6 7-9

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-8 2-3 3-4 4-5

exact bonds :

2-7 4-6 7-9

Match level :

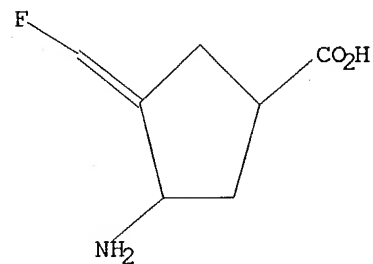
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

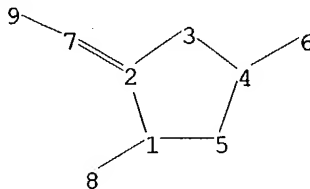
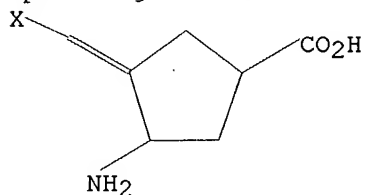
=> search l1 exact full
 FULL SEARCH INITIATED 09:02:49 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

L2 0 SEA EXA FUL L1

=>
 Uploading C:\Examination Auxillary files\10623152\10623152 c1m 1 obv X.str

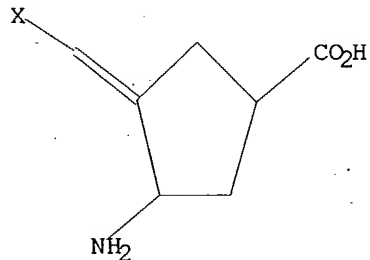


chain nodes :
 6 7 8 9
 ring nodes :
 1 2 3 4 5
 chain bonds :
 1-8 2-7 4-6 7-9
 ring bonds :
 1-2 1-5 2-3 3-4 4-5
 exact/norm bonds :
 1-2 1-5 1-8 2-3 3-4 4-5
 exact bonds :
 2-7 4-6 7-9

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L3 STRUCTURE UPLOADED

=> d 13
 L3 HAS NO ANSWERS
 L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss full
 FULL SEARCH INITIATED 09:06:17 FILE 'REGISTRY'
 COMMAND INTERRUPTED

If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> search l3 sss full
FULL SEARCH INITIATED 09:06:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4 TO ITERATE

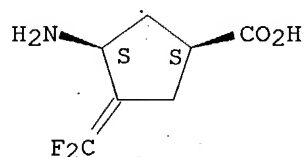
100.0% PROCESSED 4 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L4 1 SEA SSS FUL L3

=> d scan

L4 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Cyclopentanecarboxylic acid, 3-amino-4-(difluoromethylene)-, (1S,3S)-
(9CI)
MF C7 H9 F2 N O2

Absolute stereochemistry. Rotation (+).



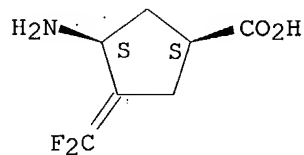
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d l4

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 640897-20-7 REGISTRY
CN Cyclopentanecarboxylic acid, 3-amino-4-(difluoromethylene)-, (1S,3S)-
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN (+)-(1S,4S)-4-Amino-3-(difluoromethylene)-1-cyclopentanecarboxylic acid
FS STEREOSEARCH
MF C7 H9 F2 N O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 213.22 | 213.70 |

FILE 'CAPLUS' ENTERED AT 09:07:08 ON 29 APR 2004
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FILE COVERS 1907 - 29 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 28 Apr 2004 (20040428/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 14

L5 1 L4

=> d 15 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Design, Synthesis, and Biological Activity of a Difluoro-Substituted, Conformationally Rigid Vigabatrin Analogue as a Potent γ -Aminobutyric Acid Aminotransferase Inhibitor
AN 2003:884657 CAPLUS
DN 140:76841
TI Design, Synthesis, and Biological Activity of a Difluoro-Substituted, Conformationally Rigid Vigabatrin Analogue as a Potent γ -Aminobutyric Acid Aminotransferase Inhibitor
AU Pan, Yue; Qiu, Jian; Silverman, Richard B.
CS Department of Chemistry, Department of Biochemistry, Molecular Biology and Cell Biology and Drug Discovery Program, Northwestern University, Evanston, IL, 60208-3113, USA
SO Journal of Medicinal Chemistry (2003), 46(25), 5292-5293
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
AB Previously it was found that a conformationally rigid analog [(1R,4S)-4-amino-2-cyclopentene-1-carboxylic acid] of the epilepsy drug (S)-vigabatrin did not inactivate γ -aminobutyric acid aminotransferase (GABA-AT). Ring opening of (1S,4S)-6-methylene-2-(phenylmethyl)-2-azabicyclo[2.2.1]heptan-3-one gave (1S,4S)-4-amino-3-methylene-1-cyclopentanecarboxylic acid (I). I, having an exocyclic

double bond, was found to inactivate GABA-AT, but only in the absence of 2-mercaptoethanol. The corresponding difluoro-substituted analog [(+)-(1S,4S)-4-amino-3-(difluoromethylene)-1-cyclopentanecarboxylic acid] was synthesized and was shown to be a very potent time-dependent inhibitor, even in the presence of 2-mercaptoethanol.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 8.67 | 222.37 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -0.69 | -0.69 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:15:40 ON 29 APR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:19:16 ON 29 APR 2004
FILE 'CAPLUS' ENTERED AT 09:19:16 ON 29 APR 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 8.67 | 222.37 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -0.69 | -0.69 |

=> file reg

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 9.11 | 222.81 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -0.69 | -0.69 |

FILE 'REGISTRY' ENTERED AT 09:19:59 ON 29 APR 2004
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STRUCTURE FILE UPDATES: 27 APR 2004 HIGHEST RN 677274-15-6
DICTIONARY FILE UPDATES: 27 APR 2004 HIGHEST RN 677274-15-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

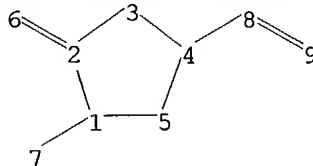
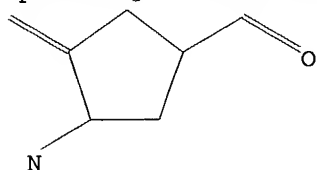
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Examination Auxillary files\10623152\10623152 c1m 1 obv bare bones.str



chain nodes :

6 7 8 9

ring nodes :

1 2 3 4 5

chain bonds :

1-7 2-6 4-8 8-9

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-7 2-3 3-4 4-5 8-9

exact bonds :

2-6 4-8

Match level :

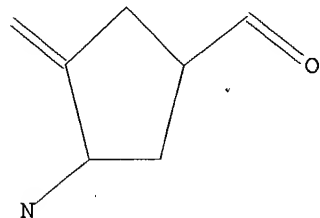
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L6 STRUCTURE UPLOADED.

=> d 16

L6 HAS NO ANSWERS

L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 16 sss

ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:full
FULL SEARCH INITIATED 09:20:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4217 TO ITERATE

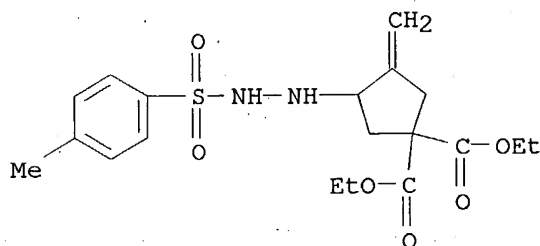
100.0% PROCESSED 4217 ITERATIONS
SEARCH TIME: 00.00.01

15 ANSWERS

L7 15 SEA SSS FUL L6

=> d scan

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,1-Cyclopentanedicarboxylic acid, 3-methylene-4-[2-[(4-methylphenyl)sulfonyl]hydrazino]-, diethyl ester (9CI)
MF C19 H26 N2 O6 S

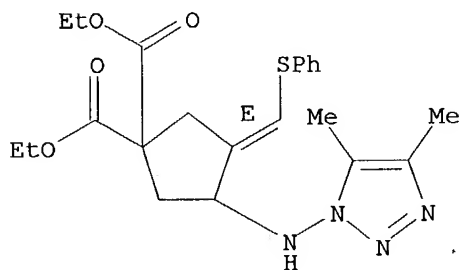


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,1-Cyclopentanedicarboxylic acid, 3-[(4,5-dimethyl-1H-1,2,3-triazol-1-yl)amino]-4-[(phenylthio)methylene]-, diethyl ester, (E)- (9CI)
MF C22 H28 N4 O4 S

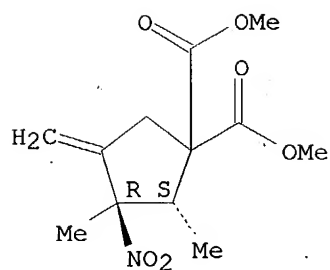
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,1-Cyclopentanedicarboxylic acid, 2,3-dimethyl-4-methylene-3-nitro-, dimethyl ester, (2R,3S)-rel- (9CI)
MF C12 H17 N O6

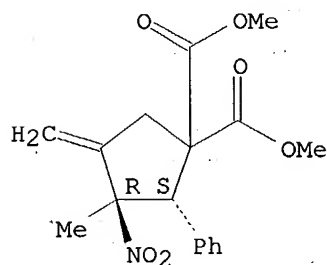
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 3-methyl-4-methylene-3-nitro-2-phenyl-,
 dimethyl ester, (2R,3S)-rel- (9CI)
 MF C17 H19 N O6

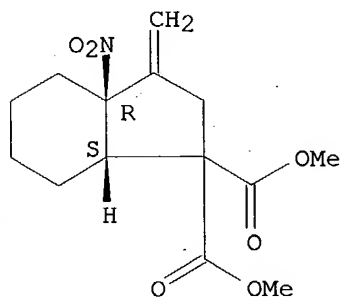
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1H-Indene-1,1-dicarboxylic acid, octahydro-3-methylene-3a-nitro-, dimethyl
 ester, (3aR,7aS)-rel- (9CI)
 MF C14 H19 N O6

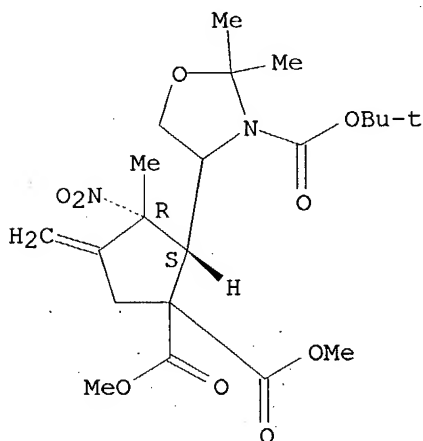
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 2-[3-[(1,1-dimethylethoxy)carbonyl]-2,2-dimethyl-4-oxazolidinyl]-3-methyl-4-methylene-3-nitro-, dimethyl ester,
 (2R,3S)-rel- (9CI)
 MF C21 H32 N2 O9

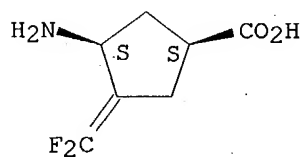
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Cyclopentanecarboxylic acid, 3-amino-4-(difluoromethylene)-, (1S,3S)-
 (9CI)
 MF C7 H9 F2 N O2

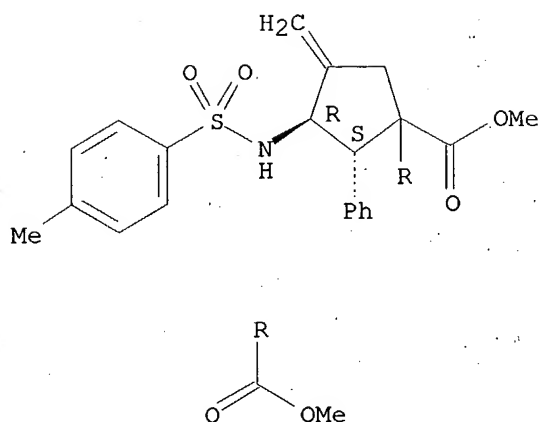
Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 4-methylene-3-[[4-methylphenyl)sulfonyl]amino]-2-phenyl-, dimethyl ester, trans- (9CI)
 MF C23 H25 N O6 S

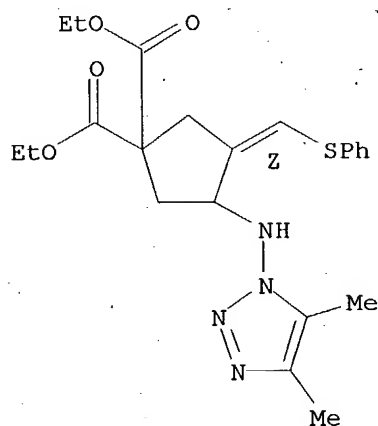
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 3-[(4,5-dimethyl-1H-1,2,3-triazol-1-yl)amino]-4-[(phenylthio)methylene]-, diethyl ester, (Z)- (9CI)
 MF C22 H28 N4 O4 S

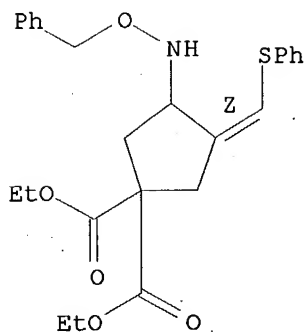
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 3-[(phenylmethoxy)amino]-4-[(phenylthio)methylene]-, diethyl ester, (Z)- (9CI)
 MF C25 H29 N O5 S

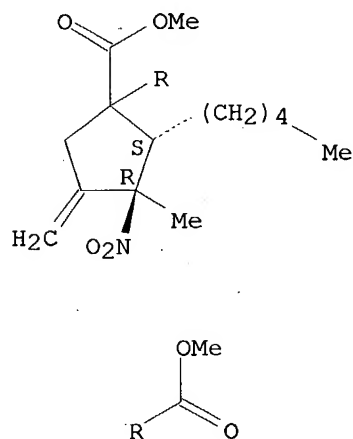
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedimethylcarboxylic acid, 3-methyl-4-methylene-3-nitro-2-pentyl-,
 dimethyl ester, (2R,3S)-rel- (9CI)
 MF C16 H25 N O6

Relative stereochemistry.



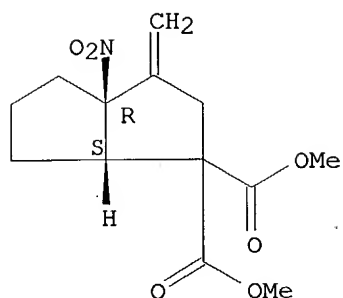
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus
 'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
 see. To end the display, enter "NONE", "N", "0", or "END".
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1(2H)-Pentalenedimethylcarboxylic acid, hexahydro-3-methylene-3a-nitro-,
 dimethyl ester, (3aR,6aS)-rel- (9CI)
 MF C13 H17 N O6

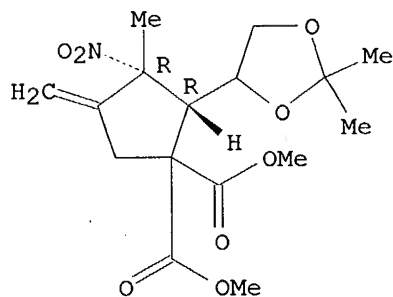
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1,1-Cyclopentanedicarboxylic acid, 2-(2,2-dimethyl-1,3-dioxolan-4-yl)-3-methyl-4-methylene-3-nitro-, dimethyl ester, (2R,3R)-rel- (9CI)
 MF C16 H23 N O8

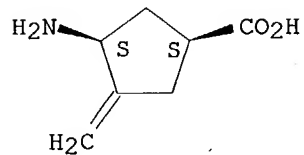
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

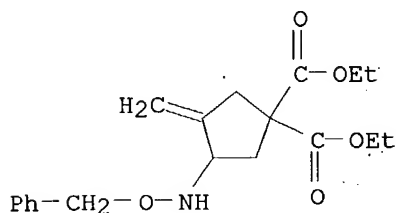
L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Cyclopentanecarboxylic acid, 3-amino-4-methylene-, (1S,3S)- (9CI)
 MF C7 H11 N O2

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 15 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,1-Cyclopentanedicarboxylic acid, 3-methylene-4-[(phenylmethoxy)amino]-,
diethyl ester (9CI)
MF C19 H25 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 156.68 | 379.49 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.00 | -0.69 |

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 09:22:17 ON 29 APR 2004
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FILE COVERS 1907 - 29 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 28 Apr 2004 (20040428/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 17

L8 6 L7

=> aminotransferase

25565 AMINOTRANSFERASE
6096 AMINOTRANSFERASES

L9 27732 AMINOTRANSFERASE
(AMINOTRANSFERASE OR AMINOTRANSFERASES)

=> 18 and 19

L10 1 L8 AND L9

=> d 110

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:884657 CAPLUS

DN 140:76841

TI Design, Synthesis, and Biological Activity of a Difluoro-Substituted,
Conformationally Rigid Vigabatrin Analogue as a Potent
 γ -Aminobutyric Acid **Aminotransferase** Inhibitor

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PB American Chemical Society

DT Journal

LA English

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |

FULL ESTIMATED COST

| | |
|------|--------|
| 4.19 | 383.68 |
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| 0.00 | -0.69 |
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LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

STN INTERNATIONAL LOGOFF AT 10:43:43 ON 29 APR 2004